

What is claimed is:

1. A recording apparatus of a helical scan type capable of recording data as inclined tracks onto a tape-shaped recording medium, comprising:

5 a rotary drum having N recording heads (where N is a plural number) on a circumference thereof;

first series code generating means for generating a first series code by adding a first parity to a first data array in a predetermined direction;

10 second series code generating means for generating a second series code by adding a second parity to a second data array in a direction orthogonal to said direction of said first data array; and

recording control means for controlling recording such 15 that said first series code is recorded by one of said N recording heads and said second series code is recorded by said N recording heads in a dispersed manner, on said tape-shaped recording medium,

wherein said second series code generating means 20 generates said second series code such that a ratio of said second parity to said second series code becomes  $1/N$  or more.

2. The recording method according to claim 1, wherein said number N of said recording heads are 4 or more.

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3. The recording method according to claim 1, wherein said first series code is recorded across a plurality of tracks, which are formed by one of said N recording heads.

30 4. A recording method for a recording apparatus of a helical scan type which records data as inclined tracks onto a

tape-shaped recording medium by N recording heads (where N is a plural number) disposed on a circumference of a rotary drum, said method comprising the steps of:

generating a first series code by adding a first parity  
5 to a first data array in a predetermined direction;

generating a second series code such that a ratio of  
second parity to a second data array becomes  $1/N$  or more, wherein  
said second parity is added to said second data array in a  
direction orthogonal to said direction of said first data array  
10 of said first series code; and

controlling recording such that said first series code  
is recorded by one of said N recording heads on said tape-shaped  
recording medium and said second series code is recorded by  
said N recording heads in a dispersed manner.